BRUHAT BANGLORE MAHANAGARA PALIKE

DASARAHALLI-ZONE

T.DASARAHALLI-SUB-DIVISION.

Name of work: Improvements to Roads at Coconut Garden in Manjunathanagara in Ward no.14 .Tdasarahalli sub division.

Estimate Cost :- 20.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of Work :-Improvements to Roads at Coconut Garden in Manjunathanagara in Ward no.14 .Tdasarahalli sub division.

			Est. Cost Rs				20.00	Lakhs	
Sl. No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 5-51 : Providing and constructing non-load bearing wall with cement concrete **solid blocks** with compressive strength no less than 35 Kg/sqm with cement mortar 1:4 (Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms.(lxblxh) conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 28/ Item No. 5.28/ PWD SR 2012-13**	**Sqm**							
			2	**24.00**		**0.20**	**9.60**		
			2	**24.50**		**0.20**	**9.80**		
			2	**25.00**		**0.20**	**10.00**		
			2	**36.00**		**0.20**	**14.40**		
			2	**22.00**		**0.20**	**8.80**		
			2	**84.20**		**0.20**	**33.68**		
			2	**48.00**		**0.20**	**19.20**		
	Opposite side		**2**	**232.00**		**0.20**	**92.80**		
							198.28	499.26	98993.00
	Basic Rate	471.00							
	Add Area Weightage 6%	28.26							
	Total	**499.26**							
2	Supplying and fixing precast rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.	Sqm							
	As per Approved Rates		1	**24.00**		0.90	21.60		
			1	**24.50**		0.90	22.05		
			1	**25.00**		0.90	22.50		
			1	**36.00**		0.90	32.40		
			1	**22.00**		0.90	19.80		
			1	**84.20**		0.90	75.78		
			1	**48.00**		0.90	43.20		
			1	**232.00**		0.90	208.80		
							446.13	1600.00	**713808.00**

3	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff within a .d of 100 meters including cost of all labour charges Complete as per specifications. MORTH Chapter 3. **Page No. 156/ Item No. 19.53/ PWD SR 2012-13**	**Sqm**			**Avg**				
	Cross road		1	102.00	5.00		510.0		
	Basic Rate	16.60					**510.0**	**17.93**	**9144.00**
	Area Weightage 8%	1.33							
	Total	**17.93**							
4	KSRRB M300- Construction of Embankment with Material Gravel / Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel / Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305 **(P.157/I.19.60 PW, P & IWTD -SR 2012-13)**	Cum							
	~~Cross road Siddeshwara Layout (Infront of Manjappa's House)~~		1	102.00	5.00	0.45	229.50	146.88	**33709.00**
	Basic Rate	136.00							
	Area Weightage 8%	10.88							
	Total	**146.88**							
5	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** Specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per Specifications.MORTH Specification No. 406 **Page No. 167/ Item No. 20.18/ PWD SR 2012-13**	**Cum**							
	Cross road		1	102.00	5.00	0.30	153.00		
	Basic Rate	981.00					**153.00**	**1059.48**	**162100.00**
	Area Weightage 8%	78.48							
	Total	**1059.48**							

6	KSRRB M2900-1: Plain cement concrete 1:3:6 mix with crushed stone aggregates 40m nominal size mechanically mixed, pl[illegible]ed in foundation and compacted by vibration including curing for 14days complete as per specifications. MORTH Specification No. 408 **Page No. 259/ Item No. 34.1/ PWD SR 2012-13**	Cum							
			1	102.00	5.00	0.15	76.50		
							76.50	3654.72	**279586.00**
	Basic Rate	3384.00							
	Area Weightage @ 8%	270.72							
	Total	**3654.72**							
7	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15cms thick layers and well compacted vibrating curing and necessary steel or ply wood or plank centering and form work etc., including smooth finish in CM 1:3,with all lead and lift etc., complete. (exclusive of cost of steel and fabrication charges) Ready mixed cement concrete for beams, columns, staircase and roof with M-20(Cement-320 kg/cum) **Page No. 19/ Item No. 4.49.1/ PWD SR 2012-13**	Cum							
	Cross road		1	102.00	5.00	0.15	76.50		
							76.50	5535.32	**423452.00**
	Basic Rate	5222.00							
	Area Weightage @ 6%	313.32							
	Total	**5535.32**							
8	KSRB 4.9.2: providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.46/ PWD SR 2012-13**	q			kg/Cum				
	For Road		76.50	Kg/Cum	35.00		**2677.50**		
						Say	**26.78**	7187.86	**192455.00**
	Basic Rate	6781.00							
	Add Area Weightage 6%	406.86							
	Total	**7187.86**							

9	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg /m with cement mortar 1:4 masonry (quoin, Jamb, c10ser blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P.27/I.5.27) PW, P & IWTD - SR 2012-13)	Sqm							
			2	102.00		0.20	40.80		
							40.80	683.70	27895.00
	Basic Rate	645.00							
	Add Area Weightage 6%	38.70							
	Total	**683.70**							
10	Vaccum de-watering with vaccum pump and suction mat and compaction wath skin floater clubbed with floating disc including cost of generator, HOM of machinery, screned vibratory, power floater, blade and disc., with all lead and lift. (P.187/I.22.7 PW,P & IWTD SR. 2012-13)	Sqm							
			1	104.00	5.00		520.00	84.80	44096.00
	Basic Rate	80.00							
	Add Area Weightage 6%	4.80							
	Total	**84.80**							
11	KSRRB M2600-4. (iii)Providing and fixing in position 20 mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans not exceeding 10 m to cater for a horizontal movement upto 20 mm, covered with sealant complete as per drawing & Technical Specification complete as per specifications MORTH Specification No. 2605 (P.248/I.31.4 PW, P & IWTD SR 2012-13)	M							
			17	5.00			85.00	167.48	14236.00
	Basic Rate	158.00							
	Add Area Weightage 6%	9.48							
	Total	**167.48**							
12	Miscellaneous and Unforeseen Charges	LS							526.00
								Total	2000000.00

(Rupees Twenty Lakhs Only)

CERTIFICATE

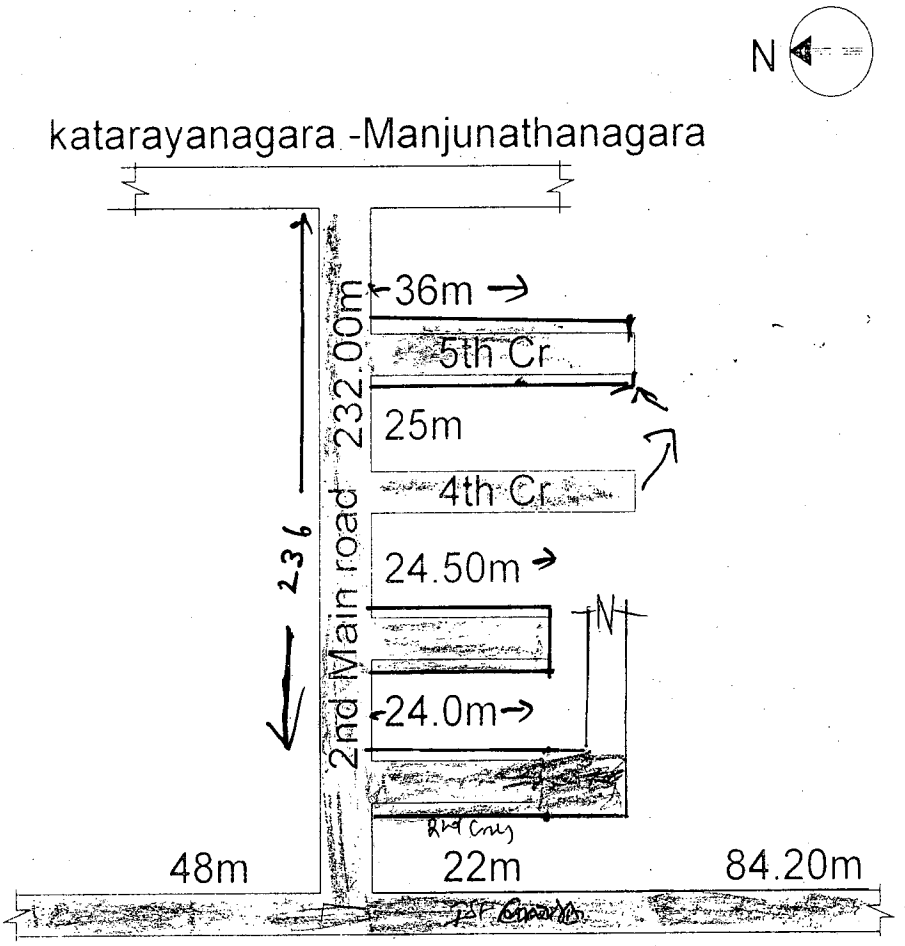
1) The Work spot has been inspected and the work is found to be necessary
2) The Estimate is prepared as per the PW,P & IWTD - SR - 2012-13
3) The Provision made in estimate are adequante and essential
4) This area comes under B.B.M.P Limits.

Assistant Engineer
Ward-14

Assistant Executive Engineer
T. Dasarahalli Sub-Division

Executive Engineer
Dasarahalli Division

Name of Work: Improvements to Roads at Coconut Garden in Manjunathanagara in ward no.14,Dasarahalli.,T.Dasarahalli sub division.



Assit Engineer
Ward no.14

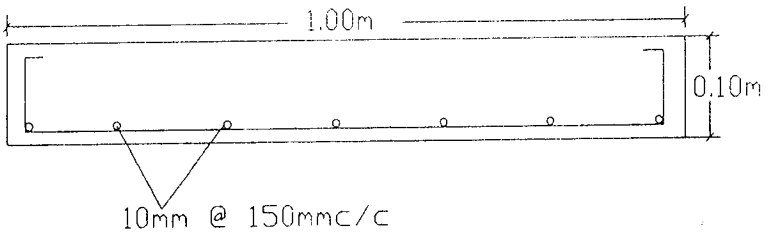
Assit Executive Engineer
T.Dasarahalli sub division
BBMP Bangalore

Executive Engineer
Dasarahalli division
BBMP Bangalore

-:DATA RATE:-

Providing & Laying Reinforced cement precast slabs of mix M20 Using 20mm & down size graded granite metal using HYSD 10mm dia steel @150mm c/c both ways & complete as per specfications.

Rate Analysis for 1.0Sqm of R.C.C Precast of 0.10m Thick by Using PW,P&IWTD SR 2012-13



1).Steel Qty= 1x7x1.10=7.70m
= 1x7x0.90=6.30m
Tota=14.00m
=14.00x0.62kgs/m =8.68kgs

Cost of Steel including Fabrications
(P-19/I-4.46,SR 2012-13)=(Rs 71.89/Kgs)=8.68x71.89=Rs.624.00

2).Cost of Concrete Qty= 1.00x1.00x0.10=0.10Cum
(P-13/I-4.11,SR 2012-13)=(Rs.5142.06/Cum)=0.10x5142.06=Rs514.20

3).Cost of Centring work Qty=Slab bottom= 1.10x1.10=1.21Sqm
Alround Slab= 4.00x0.15=0.60Sqm

Total=1.81Sqm

(P-16/I-4.28,SR 2012-13 =1.81x254.40=Rs.460.46

Total=Rs.1598.66

The Cost of precast Slab is Say Rs.1600/Sqm.

AE
Wno.14

AE
Wno.15

Assist. Executive Engineer
T.Dasarahalli Sub Division
BBMP Bangalore.

Executive Engineer
Dasarahalli Division
BBMP Bangalore.